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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/795,860	07/12/2004	Jeffrey Owen Phillips	04242373	1266
26565 7590 05/26/2010 MAYER BROWN LLP P.O. BOX 2828 CHICAGO, IL 60690				
EXAMINER				
CHOI, FRANK I				
ART UNIT		PAPER NUMBER		
1616				
NOTIFICATION DATE		DELIVERY MODE		
05/26/2010		ELECTRONIC		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ipdocket@mayerbrown.com

Office Action Summary**Application No.**

10/795,860

Applicant(s)

PHILLIPS, JEFFREY OWEN

Examiner

FRANK I. CHOI

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Period for Reply -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 22 February 2010.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 75, 77, 84-89 and 91 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 75, 77, 84-89 and 91 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 21 October 2008 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
- 4) ☐ Interview Summary (PTO-413)
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____
- Paper No(s)/Mail Date _____

DETAILED ACTION

Priority

This application repeats a substantial portion of prior Application No. 10/407,552, filed 4/4/2003, and adds and claims additional disclosure not presented in the prior application (See below). Since this application names an inventor or inventors named in the prior application, it may constitute a continuation-in-part of the prior application. Should applicant desire to obtain the benefit of the filing date of the prior application, attention is directed to 35 U.S.C. 120 and 37 CFR 1.78.

Specification

The amendment filed 6/11/2007 with respect to the Specification is objected to under 35 U.S.C. 132(a) because it introduces new matter into the disclosure. 35 U.S.C. 132(a) states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows: The range of "about 0.75 mEq (mmole) to about 1.5 mEq(mmol) per 2 mg of omeprazole". The remarks do not indicate how the range was determined and what specific disclosure in the original specification and/or claims support the amendment.

The Examiner has duly considered the Applicant's arguments but deems them unpersuasive.

The Applicant cites to Application No. 09/183,422, page 22, lines 10-13. There is nothing on page 22, lines 10-13 of said application which supports the amendment. Said disclosure is directed to the benefits of micronization.

Applicant is required to cancel the new matter in the reply to this Office Action.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 75, 77, 84-89, 91 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claims 75, 77, 84-89, 91 contain the limitation "in an amount more than about 20 times the amount of the omeprazole on a weight to weight basis in the composition". There is no support for this limitation as the disclosure cited by the Applicant does not set forth the same. The Applicant does not provide any calculation showing how the range was determined. Further, examples I-IV and VI disclose only specific amounts of a buffer with respect to an amount of the proton pump inhibitor and do not disclose an open ended range. The range disclosed on page 35, lines 5-20 is not a weight basis range, is a closed range and is limited to suspension tablets comprising about 20 mg omeprazole and about 1-20 mEq of sodium bicarbonate.

The Examiner notes that claim 91 was not rejected for reciting the limitation "about". The Examiner sees no difference between the term "approximately" and the term "about". The Applicant though may wish to keep the claim language consistent in that the term "about" is used in the other claims.

Claim Rejections - 35 USC § 102/103

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

With respect to the rejections below, since the Applicant has filed preliminary amendments containing new matter with respect to the Specification and claims, the Applicant is only entitled to the filing date of the present Application of March 8, 2004.

Claims 75, 77, 84-86, 88-89, 91 are rejected under 35 U.S.C. 102(b) as being rejected by Phillip (US Pat. 6,489,346).

Phillip expressly discloses tablets as follows:

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B. 10 mg Tablet Formula

5	Omeprazole	10 mg (or lansoprazole or pantoprazole or other PPI in an equivalent amount)
	Calcium lactate	175 mg
	Calcium glycerophosphate	175 mg
	Sodium bicarbonate	250 mg
0	Aspartame calcium (phenylalanine)	0.5 mg
	Colloidal silicon dioxide	12 mg
	Corn starch	15 mg
	Croscarmellose sodium	12 mg
	Dextrose	10 mg
	Peppermint	3 mg
5	Methocelrin	3 mg
	Mannitol	3 mg
	Pregelatinized starch	3 mg

C. 20 mg Tablet Formula

5	Omeprazole	20 mg (or lansoprazole or pantoprazole or other PPI in an equivalent amount)
	Calcium lactate	175 mg
	Calcium glycerophosphate	175 mg
	Sodium bicarbonate	250 mg
0	Aspartame calcium (phenylalanine)	0.5 mg
	Colloidal silicon dioxide	12 mg
	Corn starch	15 mg
	Croscarmellose sodium	12 mg
	Dextrose	10 mg
	Peppermint	3 mg
5	Methocelrin	3 mg
	Mannitol	3 mg
	Pregelatinized starch	3 mg

D. Tablet For Rapid Dissolution

5	Omeprazole	20 mg (or lansoprazole or pantoprazole or other PPI in an equivalent amount)
	Calcium lactate	175 mg
	Calcium glycerophosphate	175 mg
	Sodium bicarbonate	500 mg
0	Calcium hydroxide	50 mg
	Croscarmellose sodium	12 mg

The Examiner has duly considered the Applicant's arguments but deems them unpersuasive.

The Applicant has not overcome the new matter objection. As such, the rejection herein is maintained as the cited reference constitutes prior art.

Claims 75, 77, 84-89, 91 are rejected under 35 U.S.C. 103(a) as being unpatentable over McCullough (US Pat. 5,447,918) in view of Carroll, EP 584,588, Whittle et al. (US Pat. 6,268,385) and the acknowledged prior art.

The claimed invention is directed to a tablet containing about 10 to about 40 mg of a non-enteric coated omeprazole or salt thereof, an amount of more than about 20 times the amount of omeprazole on a weight to weight basis in the composition of a buffer, said buffer comprising sodium bicarbonate, and excipients.

McCullough disclose a tablet containing 20-300 mg omeprazole, 400-500 mg calcium carbonate, sucralfate, simethicone, sodium saccharin, corn starch, carboxymethyl cellulose, magnesium stearate and flavor (Columns 15, 16, example 12). The use of one or more of aluminum hydroxide, magnesium hydroxide, potassium or sodium bicarbonate, calcium carbonate, magnesium carbonate is also disclosed (Column 8, lines 15-35).

Carroll et al. disclose the use of sodium bicarbonate to stabilize omeprazole in the gastric environment (Abstract).

EP 584,588 discloses a non-enteric coated anti-ulcer PPI and a basic material, such as alumina magnesium hydroxide, aluminum hydroxide, magnesium hydroxide, sodium carbonate, calcium carbonate, magnesium carbonate, sodium hydrogen carbonate, potassium hydrogen carbonate, magnesium hydrogen carbonate, calcium hydrogen carbonate, and that the amount of basic material may be present in an amount of 50 to 2000 weights per 100 weight parts (Pages 3-6). It is disclosed that the basic material is used to preserve the stability of the acid-labile

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imidazole derivative in the stomach (Page 6, lines 19-21). It is disclosed that omeprazole and imidazole derivative are both acid-labile (Example 1 at pages 6,7). It is disclosed that the composition can be administered orally, in the form of tablets, pellets, capsules, powder, granules, syrup, paste and the like and that they can contain excipients, disintegrants, binders, lubricants, pigments, diluents and the like which are commonly employed in the art (Page, 6, lines 28-35).

Whittle et al. discloses that esomeprazole is S-omeprazole (Column 19, lines 51-54). Methods of preparing oral dosage forms including mixing the active ingredient with an alkali material which creates a micro-pH of not less than pH of 7, preferably not less than a pH of 8 chosen from such materials as sodium, potassium, calcium, magnesium, and aluminum salts of phosphoric acid, carbonic acid, citric acid, or other suitable weak inorganic or organic acids; substances typically used in antacid preparations such as aluminum, calcium, and magnesium hydroxides; magnesium oxide or composite substances such as, for example, Al.sub.2 O.sub.3.6MgO CO.sub.2.12H.sub.2 O (Mg.sub.6 Al.sub.2.(OH).sub.16 CO.sub.3 4H.sub.2 O), MgO.Al.sub.2 O.sub.3, 2SiO.sub.2.nH.sub.2 O, wherein n is not necessarily a whole number and may be less than 2, or similar compounds (Column 43, lines 6-34). It is disclosed that the above mixture may then be formulated into pellets or tablets or gelatin capsules which may then be used as cores for further processing, for example, enteric coating (column 43, column 44). It is disclosed that the tablets can contain lubricating agents, fillers and bulking agents and disintegrating agents (Columns 41, 42). It is disclosed that the preferred dosages of the active ingredients is from about 8 mg to about 10 mg, about 16 mg to about 20 mg, and about 32 mg to about 40 mg, especially 10 mg, 20 mg and 40 mg per dosage unit (Column 41, lines 9-20).

The Applicant acknowledges that omeprazole is a H⁺, K⁺-ATPase proton pump inhibitor (Specification, Page 12)

McCullough disclose a tablet containing 20-300 mg omeprazole, 400-500 mg calcium carbonate, sucralfate, simethicone, sodium saccharin, corn starch, carboxymethyl cellulose, magnesium stearate and flavor and that aluminum hydroxide, magnesium hydroxide, potassium or sodium bicarbonate, calcium carbonate, magnesium carbonate can also be used. The difference between the McCullough and the claimed invention is that McCullough does not expressly disclose 10-40 mg of non-enteric coated omeprazole and an amount of more than about 20 times the amount of omeprazole on a weight to weight basis in the composition of a buffer, said buffer comprising sodium bicarbonate, and excipients. However, the prior art amply suggests the same as the Carroll et al. disclose the use of sodium bicarbonate to stabilize omeprazole in the gastric environment; EP 584,588 discloses a non-enteric coated PPI containing basic material and that omeprazole is acid sensitive; Whittle et al. disclose the use of buffering agents such as sodium bicarbonate and magnesium hydroxide and tablets containing excipients such as disintegrants, lubricants, fillers and bulking agents; and the Applicant acknowledges that omeprazole is a PPI. As such, it would have been well within the skill of and one of ordinary skill in the art would have been motivated to modify the prior art as above with the expectation the combination of the non-enteric coated PPI with the basic substance, such as sodium bicarbonate and magnesium hydroxide, would protect the PPI from stomach acid and that the product can be effectively administered as a tablet.

The Examiner has duly considered the Applicant's arguments but deems them unpersuasive.

The rejection herein is based on a combination of references. As such, there is no requirement that McCullough disclose the claimed range of omeprazole in conjunction with the claimed range of sodium bicarbonate. The Kim reference is no longer part of the rejection herein.

The claimed range of more than about 20 times the amount of omeprazole of a buffer does not exclude EP 584,588. Contrary to the Applicant's arguments, EP 585,588 does not teach that total basic material to anti-ulcer compound ratio must be less than 20:1; EP 585,588 in fact includes a 20:1 ratio. Furthermore, the Applicant claims include amounts of buffer which are less than 20:1 ratio by use of the term "about". As such, EP 584,588 does not teach away from the claimed invention and in fact the prior art range overlaps the claimed range. In the case where the claimed ranges "overlap or lie inside ranges disclosed by the prior art" a prima facie case of obviousness exists. *In re Wertheim*, 541 F.2d 257, 191 USPQ 90 (CCPA 1976); *In re Woodruff*, 919 F.2d 1575, 16 USPQ2d 1934 (Fed. Cir. 1990) (The prior art taught carbon monoxide concentrations of "about 1-5%" while the claim was limited to "more than 5%." The court held that "about 1-5%" allowed for concentrations slightly above 5% thus the ranges overlapped.); *In re Geisler*, 116 F.3d 1465, 1469-71, 43 USPQ2d 1362, 1365-66 (Fed. Cir. 1997) (Claim reciting thickness of a protective layer as falling within a range of "50 to 100 Angstroms" considered prima facie obvious in view of prior art reference teaching that "for suitable protection, the thickness of the protective layer should be not less than about 10 nm [i.e., 100 Angstroms].") The court stated that "by stating that suitable protection is provided if the protective layer is about 100 Angstroms thick, [the prior art reference] directly teaches

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the use of a thickness within [applicant's] claimed range.”). Similarly, a *prima facie* case of obviousness exists where the claimed ranges and prior art ranges do not overlap but are close enough that one skilled in the art would have expected them to have the same properties. *Titanium Metals Corp. of America v. Banner*, 778 F.2d 775, 227 USPQ 773 (Fed. Cir. 1985) (Court held as proper a rejection of a claim directed to an alloy of “having 0.8% nickel, 0.3% molybdenum, up to 0.1% iron, balance titanium” as obvious over a reference disclosing alloys of 0.75% nickel, 0.25% molybdenum, balance titanium and 0.94% nickel, 0.31% molybdenum, balance titanium.).

Therefore, the claimed invention, as a whole, would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made, because every element of the invention has been collectively taught by the combined teachings of the references.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the “right to exclude” granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 75, 77, 84-89, 91 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 171, 173, 183-186, 188, 192, 193, 206, 249, 251-261 of copending Application No. 10/407,552. Although the conflicting claims are not identical, they are not patentably distinct from each other because they both encompass tablets containing the combination non-enteric coated benzimidazole PPI, such as omeprazole, sodium bicarbonate and other buffers, including magnesium hydroxide, and excipients, such as a disintegrant.

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claims 75, 77, 84-89, 91 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1, 5, 8, 12, 22-28, 30, 31, 33, 36, 39-43, 54, 62, 63, 65, 68, 70, 72-74, 76 of copending Application No. 10/418, 410. Although the conflicting claims are not identical, they are not patentably distinct from each other because they both encompass tablets containing the combination non-enteric coated benzimidazole PPI, such as omeprazole, sodium bicarbonate and other buffers, including magnesium hydroxide, and excipients, such as a disintegrant.

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim 75, 77, 84-89, 91 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-29 of U.S. Patent No. 6,780,882, claims 1, 2, 9-13, 15, 17, 24-41, 49, 50, 52, 53, 57-72, 80-88, 95-102, 110, 111, 113-118 of U.S. Pat. No. 6,489,346, claims 1-3, 10-29 of U.S. Pat. No. 6,645,988, claims 1-3, 5-24, 25, 29-47, 50 of US

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Pat. 6,699,885 and claims Although the conflicting claims are not identical, they are not patentably distinct from each other because they both encompass tablets containing the combination non-enteric coated benzimidazole PPI, such as omeprazole, sodium bicarbonate and other buffers, including magnesium hydroxide, and excipients, such as a disintegrant.

Claim 75, 77, 84-86, 88, 89, 91 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-7, 9, 11, 13, 16-21 of US Pat. 7,399,772. Although the conflicting claims are not identical, they are not patentably distinct from each other because they both encompass tablets containing the combination non-enteric coated benzimidazole PPI, such as omeprazole, sodium bicarbonate and other buffers, such as magnesium silicate, calcium hydroxide, calcium acetate or calcium lactate, and excipients, such as a disintegrant.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

A facsimile center has been established in Technology Center 1600. The hours of operation are Monday through Friday, 8:45 AM to 4:45 PM. The telecopier number for accessing the facsimile machine is 571-273-8300.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frank Choi whose telephone number is (571)272-0610. The Examiner maintains a flexible schedule, however, the Examiner may generally be reached Monday, Tuesday, Wednesday and Thursday, 6:00 am – 4:30 pm (EST).

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's Supervisor, Johann R. Richter, can be reached at (571)272-0646. Additionally, Technology Center 1600's Receptionist and Customer Service can be reached at (571) 272-1600.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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May 24, 2010

/Johann R. Richter/
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